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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/518,944	05/24/2005	Peter Kammer	IBM-7434	5297	
26294 759 TAROLLI SUNI	90 12/18/2006 DHEIM, COVELL &	EXAMINER			
1300 EAST NINT	TH STREET, SUITE	NGUYEN, DINH Q			
CLEVEVLAND,	OH 44114	ART UNIT	PAPER NUMBER		
			3752		
SHORTENED STATUTORY P	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
2 MONT		12/19/2006	DADED		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

			Application	n No.		Applicant(s)			
		10/518,94	4		KAMMER, PETER				
Office Action Summary			Examiner	•		Art Unit			
		_	Dinh Q. N			3752	_		
Period fo	- The MAILING DATE of this commun r Reply	ication app	ears on the	cover sheet wi	ith the co	rrespondence ac	ddress		
WHIC - Exten after: - If NO - Failur Any re	DRTENED STATUTORY PERIOD F HEVER IS LONGER, FROM THE M sions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comm period for reply is specified above, the maximum state to reply within the set or extended period for reply eply received by the Office later than three months a d patent term adjustment. See 37 CFR 1.704(b).	IAILING DA of 37 CFR 1.13 nunication. atutory period w will, by statute,	ATE OF TH 66(a). In no eve vill apply and wi cause the appl	IIS COMMUNIC ent, however, may a re Il expire SIX (6) MON ication to become AB	CATION. reply be time ITHS from th BANDONED	ly filed ne mailing date of this of (35 U.S.C. § 133).	,		
Status									
1) 又	Responsive to communication(s) file	ed on <i>24 Ma</i>	av 2005.	•					
· —	This action is FINAL . 2b)⊠ This action is non-final.								
/	Since this application is in condition	,			ers, pros	ecution as to the	e merits is		
• • •	closed in accordance with the practi	ce under E	x parte Qu	<i>ayle</i> , 1935 C.D	. 11, 453	3 O.G. 213.			
Dispositi	on of Claims						•		
4) 🖂	Claim(s) 1-11 is/are pending in the a	application.							
,	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)	5) Claim(s) is/are allowed.								
6)⊠	6)⊠ Claim(s) <u>1-11</u> is/are rejected.								
7)	Claim(s) is/are objected to.								
8)	Claim(s) are subject to restrict	ction and/or	election re	equirement.					
Applicati	on Papers								
9) The specification is objected to by the Examiner.									
10) 🔲 🧵	The drawing(s) filed on is/are:	: a)	epted or b)	objected to	by the Ex	xaminer.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) 🔲 -	The oath or declaration is objected to	by the Ex	aminer. No	te the attached	d Office A	Action or form P	TO-152.		
Priority u	nder 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
Attachment 1) ⊠ Notice 2) □ Notice 3) ⊠ Inform				4) Interview S Paper No(s	Summary (F s)/Mail Date nformal Pat	PTO-413)			

Application/Control Number: 10/518,944 Page 2

Art Unit: 3752

DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 1-11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 3. Claim 1 recites the limitations: "the outlet opening" in line 2, "the outlet channel" in line 3, "the nozzle body" in line 4; Claim 2 recites the limitation: "the connection" in line 3; Claim 3 recites the limitation: "the connection" in line 3; Claim 5 recites the limitation: "the connection" in line 3; Claim 6 recites the limitation: "the material" in line 2; Claim 7 recites the limitation: "the melting range" in line 2; Claim 8 recites the limitations: "the holding force F" and "the connection" in line 2, "the force f" in line 3, "the pressure of the extinguishant" in line 4; Claim 9 recites the limitation: "the region of the outlet channel" in line 2; Claim 10 recites the limitation: "the region of the inlet channel" in line 2. There is insufficient antecedent basis for this limitation in the claims. The claims are generally narrative and indefinite, failing to conform to current U.S. practice. They appear to be a literal translation into English from a foreign document. The claims appear to be a list of the elements of the invention without a clear explanation of each element's placement. Applicant is advised to completely review the claims for errors.
- 4. For the purpose of this Office action, the claims will be examined as best understood by the examiner.

Application/Control Number: 10/518,944

Art Unit: 3752

Claim Rejections - 35 USC § 102

5. Claims 1, 2, 4, 5, 9-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Werner as best understood by the examiner.

Werner discloses a closure that reacts to heat comprising: an outlet opening 22 an the end of an outlet channel 4, the outlet opening 22 is closed by a cover plate 19 that is firmly connected to the nozzle body 10/20 by means of a melting initiator 23, wherein the melting initiator 23 is a solder with a low melting point, a pin 18 touches the cover plate 19 that is arranged in the outlet channel 4 and the outlet opening 22, the pin 18 has a sealing element 15 locating in a region of an inlet channel 3, and the cover plate 19 and the pin are produced integrally.

6. Claims 1, 3-5, 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Grenier as best understood by the examiner.

Grenier disclose a closure that reacts to heat comprising: an outlet opening 236 an the end of an outlet channel 238, the outlet opening 236 is closed by a cover plate 246 that is firmly connected to the nozzle body 242 by means of a melting initiator 260 with a low melting point, a pin 256 touches the cover plate 246 that is arranged in the outlet channel 238 and the outlet opening 236.

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Page 3

Art Unit: 3752

8. Claims 6-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Werner or Grenier in view of Marsh.

Werner or Grenier teaches all the limitations of the claims except for the melting temperature range of the melting initiator is 50° to 300°. However, Marsh discloses a closure that reacts to heat with melting initiator 52 that is melted at 260° C (see column 4, line 20). Therefore, it would have been obvious to one having ordinary skill in the art to have provided the device of Werner and Grenier with the melting initiator that has a melting range of 50° to 300° as suggested by Marsh. Doing so would provide an effective way to fight fire (see column 2, lines 14+).

With respect to claims 6 and 8, At the time the invention was made, it would have been an obvious matter of design choice to a person of ordinary skill in the art to provide the device of Werner or Grenier with the maximum tolerance of 6°C for the melting range of the melting initiator, or the holding force of the melting initiator is at least one and half times greater than the force of the fire extinguishant; because Application has not disclosed that the maximum tolerance of 6°C for the melting range of the melting initiator, or the holding force of the melting initiator is at least one and half times greater than the force of the fire extinguishant provides an advantage, is used for a particular purpose, or solves a stated problem. One of ordinary skill in the art, furthermore, would have expected Applicant's invention to perform equally well with either claimed dimensions or the Werner or Grenier dimensions. Therefore, it would have been an obvious matter of design choice to modify the device of Werner or Grenier to obtain the invention as specified in claims 6 and 8.

Application/Control Number: 10/518,944

Art Unit: 3752

Conclusion

Page 5

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following patents are cited to show the art with respect to a heat reacted closure: Juliano, Johnson, and Polan.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dinh Q. Nguyen whose telephone number is 571-272-4907. The examiner can normally be reached on Monday-Thursday 6:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Shaver can be reached on 571-272-4720. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Dinh Q Nguyên | Briman, Examiner

Primary Examiner Art Unit 3752